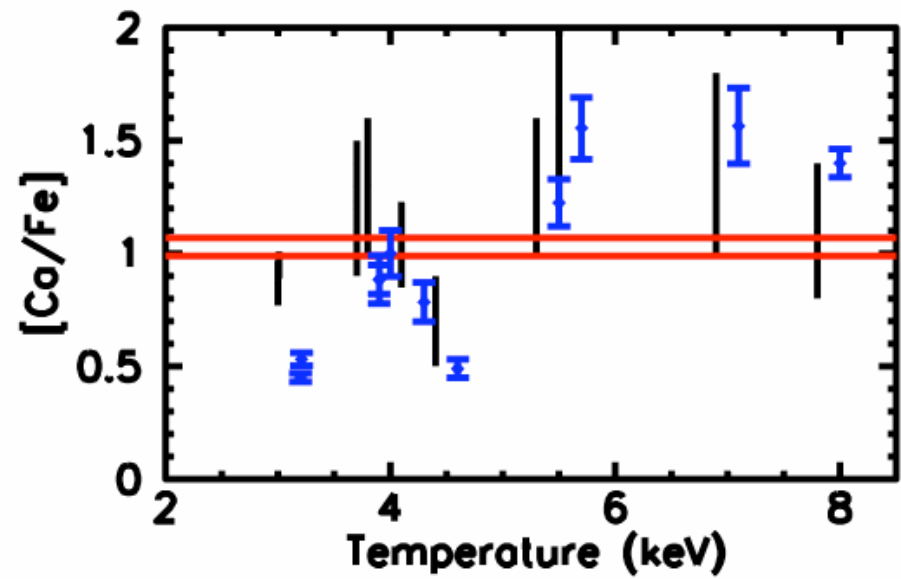
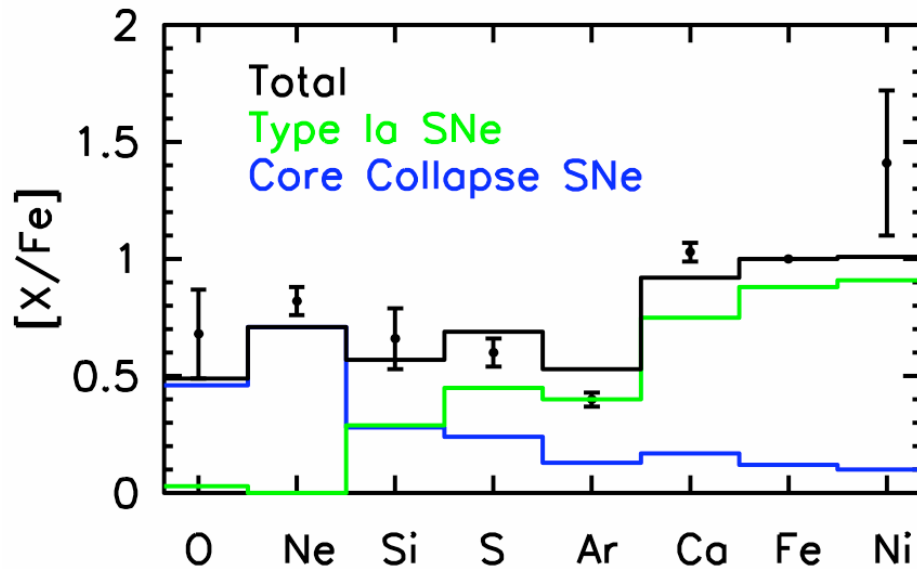


Cluster Abundances Measured with Astro-H/SXS



Cluster abundances averaged from XMM-Newton observations, fit with a combination of observed SN Ia ejecta from Tycho (green) and theoretical core-collapse models (blue) (after de Plaa et al. 2007). Surprisingly, no combination of these two sources explains the observed ratios of elements, in particular $[Ar/Fe]$ and $[Ca/Fe]$.

The average range for $[Ca/Fe]$ is shown in red, with values for individual clusters from XMM (black) and SXS simulations (blue).

SXS will enable tests on a per-cluster basis, rather than as an average, Removing a major source of uncertainty in the results.